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## Massive Audio HIPPOXL152R

# Massive Audio HIPPOXL152R 15" Subwoofer User Manual

Model: HIPPOXL152R

## 1. INTRODUCTION

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Thank you for choosing the Massive Audio HIPPOXL152R 15-inch Car Audio Subwoofer. This high-performance subwoofer is engineered for exceptional bass reproduction in car audio systems, suitable for daily listening, high-powered setups, and SPL competitions. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and longevity of your subwoofer.

## 2. SAFETY INFORMATION

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Please read and understand all safety instructions before installing or operating this product. Failure to follow these guidelines may result in injury or damage to the product or vehicle.

- Always disconnect the vehicle's battery before beginning any electrical work.
- Ensure proper wiring and connections to prevent short circuits and electrical fires.
- Use appropriate gauge wiring for power and speaker connections as recommended by amplifier manufacturers.
- Install the subwoofer securely in a suitable enclosure to prevent movement during vehicle operation.
- Avoid exposing the subwoofer to excessive moisture or extreme temperatures.
- Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Use caution when adjusting volume.

## 3. WHAT'S IN THE BOX

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Upon opening the package, verify that all components are present and undamaged.

- Massive Audio HIPPOXL152R 15 Inch Car Audio Subwoofer (1 unit)

## 4. FEATURES

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The HIPPOXL152R subwoofer incorporates advanced design and materials for superior performance:

- 430 oz High Energy Double Stack Strontium Magnet Structure
- Heavy Duty Direct Input Wires Connection to Voice Coils
- Red Stitched Edge to the Cone's Edge for Added Strength
- Reinforced Fiberglass Woven Dust cap for High Power Applications
- Dual 2 Ohm Voice Coils for flexible wiring configurations
- Kevlar Fiber Reinforced Non-Pressed Paper Cone with Industrial Textured Finish
- Heavy Duty Rugged Industrial Textured Cast Aluminum Basket

## 5. SPECIFICATIONS

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Attribute	Detail
Model Name	HIPPOXL152R
Speaker Type	Subwoofer
Subwoofer Diameter	15 Inches
Impedance	Dual 2 Ohm
Speaker Maximum Output Power	6000 Watts (Peak)
RMS Power	3000 Watts
Voice Coil	4 Inch
Material	Basket: Cast Aluminum, Cone: Non-Pressed Paper
Product Dimensions	19"D x 19"W x 17"H
Item Weight	68 Pounds
Recommended Uses	Daily music enjoyment, SPL competitions, high-powered musical setups
Manufacturer	Massive Audio

## 6. SETUP AND INSTALLATION

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Proper installation is crucial for the performance and longevity of your subwoofer. It is highly recommended that installation be performed by a qualified car audio professional.

### 6.1 Enclosure Requirements

The HIPPOXL152R requires a robust, sealed or ported enclosure designed to its specific Thiele-Small parameters for optimal performance. **Smallest Recommended Sealed Enclosure:** Approximately 16" L x 16" W x 15" H. Consult a car audio specialist or use a reputable enclosure design software for precise dimensions and port tuning if building a ported enclosure.

### 6.2 Wiring Configurations (Dual 2 Ohm)

The dual 2 Ohm voice coils offer flexibility in wiring to match your amplifier's stable impedance.

- **1 Ohm Load:** Wire both voice coils in parallel. Connect the positive (+) terminals of both coils together and to the amplifier's positive output. Connect the negative (-) terminals of both coils together and to the amplifier's negative output.
- **4 Ohm Load:** Wire both voice coils in series. Connect the positive (+) terminal of one coil to the negative (-) terminal of the other coil. Connect the remaining positive (+) terminal to the amplifier's positive output and the remaining negative (-) terminal to the amplifier's negative output.

**Important:** Ensure your amplifier is stable at the chosen impedance. Incorrect wiring can damage both the subwoofer and the amplifier.

## 6.3 Amplifier Selection

Select an amplifier capable of delivering 3000 Watts RMS power at the chosen impedance (1 Ohm or 4 Ohm). Providing adequate, clean power is essential for optimal performance and to prevent damage from clipping.

## 6.4 Mounting

Mount the subwoofer securely within the enclosure using appropriate fasteners. Ensure a tight seal between the subwoofer frame and the enclosure baffle to prevent air leaks.

# 7. OPERATING INSTRUCTIONS

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## 7.1 Break-in Period

Allow a break-in period of approximately 20-30 hours of normal listening before operating the subwoofer at high volumes. This allows the suspension components (spider and surround) to loosen up and reach their optimal compliance, improving overall performance and longevity. During break-in, avoid prolonged periods of high excursion or clipping.

## 7.2 Amplifier Gain and Crossover Settings

Properly set your amplifier's gain (input sensitivity) to match the output voltage of your head unit. Use a digital multimeter or oscilloscope for accurate gain setting to prevent clipping. Set the low-pass filter (LPF) on your amplifier or head unit to filter out frequencies above the subwoofer's intended range, typically between 60Hz and 100Hz, depending on your system and preferences.

## 7.3 Listening Levels

While the HIPPOXL152R is designed for high power, continuous operation at extreme volumes that cause audible distortion or excessive cone excursion can lead to damage. Listen for signs of distortion and reduce volume if present.

# 8. MAINTENANCE

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The Massive Audio HIPPOXL152R is built for durability and requires minimal maintenance.

- Keep the subwoofer cone and surround free from dust and debris. Use a soft, dry cloth for cleaning.
- Periodically check all wiring connections to ensure they are secure and free from corrosion.
- Ensure the subwoofer enclosure remains sealed and free from damage.
- Avoid spilling liquids on the subwoofer.

# 9. TROUBLESHOOTING

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If you experience issues with your subwoofer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound from Subwoofer	<ul style="list-style-type: none"> <li>Amplifier not powered on</li> <li>Loose or incorrect wiring</li> <li>Blown fuse in amplifier or power wire</li> <li>Head unit settings (subwoofer output off)</li> <li>Damaged voice coil</li> </ul>	<ul style="list-style-type: none"> <li>Check amplifier power, remote turn-on wire</li> <li>Verify all speaker and power connections</li> <li>Inspect and replace fuses if necessary</li> <li>Check head unit audio settings</li> <li>Test voice coil resistance with a multimeter. If open circuit, replacement may be needed.</li> </ul>
Distorted Sound	<ul style="list-style-type: none"> <li>Amplifier gain set too high (clipping)</li> <li>Incorrect crossover settings</li> <li>Damaged subwoofer cone or surround</li> <li>Loose mounting or enclosure leaks</li> </ul>	<ul style="list-style-type: none"> <li>Reduce amplifier gain. Re-set gain properly.</li> <li>Adjust LPF to appropriate frequency.</li> <li>Inspect for physical damage.</li> <li>Check mounting screws and enclosure integrity.</li> </ul>
Weak Bass Output	<ul style="list-style-type: none"> <li>Incorrect wiring impedance for amplifier</li> <li>Insufficient amplifier power</li> <li>Subwoofer phase issue</li> <li>Improper enclosure design</li> </ul>	<ul style="list-style-type: none"> <li>Verify wiring matches amplifier's stable impedance.</li> <li>Ensure amplifier provides adequate RMS power.</li> <li>Check phase switch on amplifier or head unit.</li> <li>Consult with an audio professional regarding enclosure.</li> </ul>

If problems persist after troubleshooting, contact Massive Audio customer support or a certified car audio technician.

## 10. WARRANTY AND SUPPORT

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### 10.1 Limited Warranty

Massive Audio products are covered by a limited warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and product. Please retain your proof of purchase for warranty claims. Damage caused by improper installation, abuse, accident, or unauthorized repair is not covered under warranty.

### 10.2 Customer Support

For technical assistance, warranty inquiries, or service, please visit the official Massive Audio website or contact their customer support department.

[www.massiveaudio.com](http://www.massiveaudio.com)

## PRODUCT IMAGES

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Figure 1: Angled view of the HIPPOXL152R subwoofer, highlighting its robust magnet and voice coil assembly.



Figure 2: Top-down view of the HIPPOXL152R subwoofer, showcasing the reinforced paper cone and red stitched surround.

